

Aviation Education News



Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

February 2004

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Coming Up in May:

Results of the
2004 Virginia Aviation Art
Contest
and
Recipients of the
2003/04 Aviation Teachers
Grant Program

Seeing Aviation Up Close

Hampton University Flight Students Participate in VASEF Meeting at the Virginia Air and Space Center

The January 2004 meeting of the Virginia Aviation and Space Education Forum (VASEF) took place January 21st at the Virginia Air and Space Center (VASC) in Hampton. Dr. Richard Byles, Director of Education at VASC, hosted the meeting which gave members the opportunity to visit the amazing new Adventures in Flight Gallery.

In addition, VASEF member Captain Darryl Stubbs brought a group of his students from nearby Hampton University to the meeting. These young people, who are getting ready to graduate, talked with VASEF members about how they became involved in aviation and what their career plans are after college. Members of the VASEF Board introduced themselves to the students as well and shared their experiences. Both VASEF members and students enjoyed the afternoon.

For an organization like VASEF to be effective, it needs to stay in touch with the young people it seeks to motivate. In this case, these poised, well informed, and enthusiastic young people motivated us!

For more about the Hampton University Flight Team see page 3.



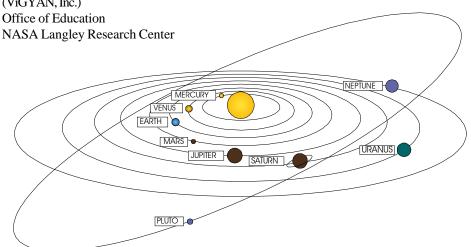
PRESIDENT'S NOTES

The NASA Langley Research Center's Office of Education (OEd) is working in collaboration with the Virginia Department of Aviation which is an excellent way to maintain two-way communication between federal and state aviation education concerns.

I have just returned from Reno, Nevada where I attended the American Institute for Aeronautics and Astronautics (AIAA). I assisted in forming their latest education venture, Precollege Programs. The other main topic I wanted to share was for engineers, scientists and researchers to make science fun. Become an "Educator Associate" which will bring new energy into the classroom. The benefits are as follows: Participation in local AIAA activities, attend AIAA conference free, tap into AIAA clearinghouse of aerospace information, gain recognition for efforts in education and lastly, qualify for up to a \$200 grant to push your science, math, or related academic agenda forward. They have developed innovative programs for obtaining an AIAA Foundation Education Classroom Aid Grant. For information contact: Lisa Bacon, 800-639-AIAA, ext. 527 or via e-mail lisab@aiaa.org.

This year, sponsored by AIAA/ASME/SAE/ASEE, there is going to be a Teacher/Engineer Conference to be held in Ft. Lauderdale, FL, July 12-14, 2004. The teacher workshop areas are as follows: Rocket-design-Bottle Rockets, Kites, LTA-Hot Air Balloons, Aviation-Centennial of Flight, Aviation-Simulation, Aerospace – Teamwork & Preparation for a Space Mission, Aeronautical Design – future X craft, Weather – Forecasting, NOAA using satellites, GPS – User and Geocoaching, Robotics – Mars exploration with First LEGO League, Alternative Energy – Hydrogen and Solar and Maritime – Underwater exploration with robots. As soon as a web site is available for the application, I will provide it here.

Peter D. Thomas
Aerospace Education Program Manager
(ViGYAN, Inc.)



VASEF AVIATION EDUCATION NEWS

is published quarterly in support of aviation education in the Commonweath of Virginia by the Virginia Department of Aviation.

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VASEF NEWS Editor: Betty Wilson

Please send story ideas, photographs, calendar events, and other items for possible inclusion to:

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VASEFPURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

VAOC Aviation Scholarship Deadline Approaches - Mail Your Application Today!

The deadline to submit your application for the 2004 VAOC Aviation Scholarship is <u>February 20, 2004</u>. This scholarship, in the amount of \$1,500.00 is available to a Virginia high school senior who plans to obtain a post high school education in pursuit of an aviation career.

Applications are available online at the Virginia Department of Aviation's web site: www.doav.virginia.gov or by contacting the Virginia Department of Aviation at (804) 225-3783, ext. 107 or e-mail betty.wilson@doav.virginia.gov.

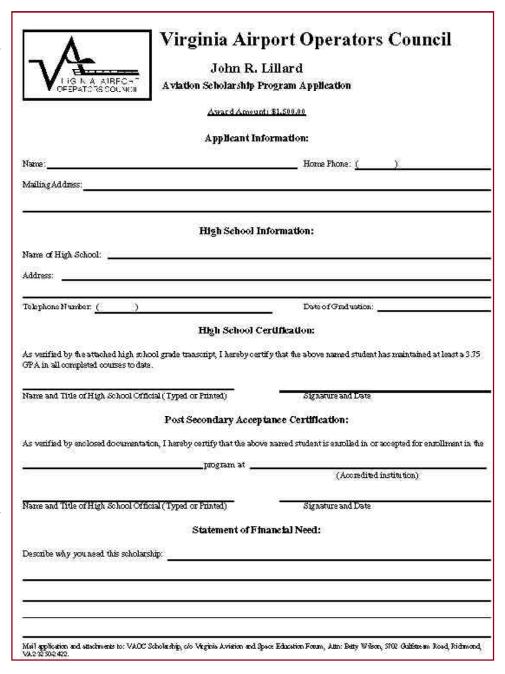
In order for your application to be considered, you must be a Virginia high school senior, have at least a 3.75 unweighted GPA; must be planning a career in the field of aviation, and must be enrolled or accepted into an aviation related program at an accredited college.

It is also necessary for you to:

- 1. Complete the attached application.
- 2. Have your guidance counselor or other high school official sign all required certifications.
- 3. Attach an official copy of your current high school transcript and a copy of acceptance letters or other verification of enrollment or acceptance into a post-secondary institution.
- 4. Attach to the application a typed, double-spaced essay (350 word minimum/ 500 word maximum) on the subject: "Why I Wish to Pursue a Career in Aviation."
- 5. Attach recommendation letters (no more than three) and a typed (one-page maximum) sheet listing both school-related and extracurricular activities demonstrating accomplishments and leadership capabilities.
- 6. Mail all documents to: VAOC Scholarship, c/o Virginia Aviation and Space Education Forum, Attn: Betty Wilson, 5702 Gulfstream Road, Richmond, VA 23250-2422.

The deadline for receipt of applications with all documentation is Friday, February 20, 2004.

Applications will be evaluated as follows: 35% Scholarship (GPA), 30% Essay, 20% Accomplishments and Leadership and 15% demonstrated financial need for scholarship.



(6) Virginia Tech – Blacksburg, VA.

Hampton University Flight Team Qualifies for National Competition 3rd Year in a Row

The Hampton University Flight Team placed in the top three teams out of six competing at the National Intercollegiate Flying Association's (NIFA) Region Ten Safety Conference and Competition (SAFECON) and earned themselves an invitation to the National SAFECON to be held April 25th-May 1st at Middle Tennessee State, Murfreesboro, TN. Hampton University most probably will be the only Historic Black College and University represented at the National competition. The Region 10 Competition was held November 12-15 at Webster Field, Leonardtown, Maryland and was hosted by the U.S. Naval Academy. The schools who participated, in order of their standings in the competition, were: (1) Caldwell Community College, Hickory, NC, (2) The U.S. Naval Academy - Annapolis, MD, (3) Hampton University, Hampton, VA, (4) Lenoir Community College, Kinston, NC, (5) Liberty University, Lynchburg, VA and

The Teams competed in ground and flight events. The ground events were manual computer accuracy, comprehensive air navigation, ground trainer simulated flight problem, aircraft preflight inspection, and aircraft recognition. Flight events consisted of precision power-on and power-off landings, air navigation and message drop.

In the battle to score points for the Team by placing in the top 10 competitors in each event (5 contestants from each team are entered in each event), James Ide took first place in Ground Trainer, followed by Jonathan Turman 2nd, Michael Morris 4th and Terrance Allen 8th. In Comprehensive Air Navigation, James Ide placed 3rd and Lamar Williams 10th. Computer Accuracy had James Ide placing 3rd and Philip Derosier 9th. Lamar Williams placed 3rd in Aircraft Recognition. Jonathan Turman and Lamar Williams place 3rd and 10th respectively in the Aircraft Preflight Event. In the flying events, Michael Morris as pilot and Lamar Williams, observer, placed 7th, pilot Terrance Allen and observer James Ide placed 9th. In Power-off Landings, Michael Morris was 7th and Terrance Allen 10th. In the final "fun event" the Message Drop, Jonathan Turman, drop master and Michael Morris pilot came in 2nd followed by Philip Derosier, drop master, and pilot Terrance Allen 10th place. The Team voted James Ide the "outstanding team member".

The Flight Team is supported by the Aviation Department at Hampton University, which is directed by Department Head, Carey Freeman, and the School of Engineering and Technology, headed by Dean Morris Morgan. The HU team consists of 7 aviation students led by Team Captains, Michael Morris and Jonathan Turman and advised and coached by Aviation Department faculty member, Captain Darryl Stubbs, a retired Navy Pilot and past Professor of Naval Science at Hampton University. While this year's Team was small, Captain Stubbs and the Team are optimistic about their chances of doing well at the National competition. This was the 3rd competition for three members of the Team and that experience was evident in the Team's poise and performance.

With the National Competition at Middle Terressee State University on the horizon, the team is working steedily to ensure they are well prepared. To do this they need to raise the needed funds to prepare and to make the trip to the competition. In order to accept the invitation and participate, the team will need roughly \$10,000 for traveland accommodations and another \$3,000 to properly prepare. Those wishing to contribute to the Team in their effort to represent Hampton University at the National level, please send your contribution to the Department of Aviation, Hampton University, Hampton, VA 23668. Make checks payable to the "Aviation Fund Hampton University".

National Air and Space Museum Calendar

Wednesday, February 4, 2004, 12:00 - 12:15 p.m.

Curator's Choice:

William J. Powell and Black Wings

Talks typically last 10-15 minutes and begin at the Museum "Great Seal", in the Milestones of Flight gallery on the first floor.

Wednesday, February 11, 2004, 12:00 - 12:15 p.m.

Curator's Choice:

George Carruthers and the Apollo Lunar Observatory

Talks typically last 10-15 minutes and begin at the Museum "Great Seal", in the Milestones of Flight gallery on the first floor.

Wednesday, February 18, 2004, 12:00 - 12:15 p.m.

Curator's Choice:

The First Black Astronauts

Talks typically last 10-15 minutes and begin at the Museum "Great Seal", in the Milestones of Flight gallery on the first floor.

<u>Wednesday, February 25, 2004, 12:00 - 12:15 p.m.</u>

Curator's Choice:

Eugene Bullard: African-American World War I Aviator

Talks typically last 10-15 minutes and begin at the Museum "Great Seal", in the Milestones of Flight gallery on the first floor.

Now Open:

National Air and Space Museum Steven F. Udvar-Hazy Center

Located at the Washington Dulles International Airport, the Udvar-Hazy Center will house 200 aircraft and 135 large space artifacts including the Space Shuttle Enterprise, SR-71 Blackbird, and B-29 Superfortress Enola Gay.

At opening it includes an aviation hangar housing 82 aircraft, 58 large space artifacts, and 1,000 smaller artifacts; the Donald D. Engen Observation Tower; an IMAX theater; the James S. McDonnell Space Hangar; and three multimedia classrooms/learning labs.

For more information visit: www.nasm.si.edu.

Barnstorming Embry-Riddle Student's Mission: Attract Youngsters to Careers in Aviation

Embry-Riddle Aeronautical University and Careers in Aviation Inc. will revisit aviation's early days by sponsoring the National DreamLaunch Tour — a barnstorming tour with a difference.

In 1926, not long after the Wright brothers' first flight, John Paul Riddle, one of the school's founders, was giving aerial joyrides in Jennys and Wacos to drum up business for his fledgling flying business in Cincinnati, Ohio. On Jan. 24, Jamail Larkins, a 19-year-old aviation business student at Embry-Riddle's Daytona Beach, Fla., campus, will update that tradition when he begins a 20-city national tour piloting a new Cirrus SR20 aircraft. His mission: get youngsters in middle schools and high schools along the way thinking about careers in aviation.

Embry-Riddle's partner in the tour is Careers in Aviation (www.careersinaviation.org), an organization that seeks to raise young people's awareness about opportunities in aviation. Sponsors are Aeroshell, AirShares Elite, Cirrus, Cox Communications, Lift, and Michelin. "We're very happy to join with Embry-Riddle in bringing this educational opportunity to young people across America," said Shawn Raker, president of Careers in Aviation. "It's a perfect way to spread the news about the many exciting careers in aviation and that the industry needs talented young people."

The national tour officially starts in Lakeland, Fla. Every Thursday, Larkins will fly the Cirrus plane to a different city, where he will visit schools, make presentations, and discuss aviation with students.

Students in schools included on Larkins' tour will be invited beforehand to write an essay answering the question, "How do you envision the next century of flight?" Judging will take place prior to each school visit. Winning essayists will be given the opportunity to fly with the Embry-Riddle student in the Cirrus the following Saturday.

Larkins, who is the national spokesperson for Careers in Aviation, will put students who want to learn more about aviation in touch with a Careers in Aviation representative or an EAA Young Eagles coordinator in their area.

Besides Lakeland, other stops on Larkins' national tour of middle schools are: Atlanta, GA; Brooklyn, NY; Chicago, IL; Cincinnati, OH; Cleveland, OH; Dallas, TX; Dare County, NC; Denver, CO; Fairfax County, VA; Greenville, SC; Houston, TX; Los Angeles, CA; Minneapolis, MN; Montgomery County, MD; Orlando, FL; Philadelphia, PA; and Phoenix, AZ. Embry-Riddle and Careers in Aviation are in discussions with school districts in additional cities to be announced later.

Jamail Larkins started flying at age 12. His first flight was with the Experimental Aircraft Association (EAA) Young Eagles Program. Shortly thereafter, he became one of the youngest American pilots after soloing a powered aircraft in Canada in July 1998 at age 14.

On Jan. 17, 2000, Jamail became the national spokesman for the EAA Vision of Eagles Program, a youth education initiative founded by the EAA Aviation Foundation. All EAA education programs, including Young Eagles, EAA Air Academy, and the Science-Math-Technology Program, are included in the Foundation's mission. As the national spokesman, Jamail represented EAA and the Vision of Eagles Program and promoted the possibilities available to aviation enthusiasts of all ages.

For details about the Embry-Riddle student's 20-city tour, call (386) 226-6182 or go to www.erau.edu/dreamlaunch.



VIRGINIA AVIATION MUSEUM CALENDAR

<u>February 3-26, 2004, 10:00 a.m.</u> Black Wings

Tuesdays and Thursdays in February, discover more about African-American aviators.

<u>February 23, 25-27, 2004, 11:00 a.m.</u> Black History Month Celebration

Hear the stories of the Tuskegee Airmen. Meet members of this inspirational group of men as they share exciting stories about their history-making service to our country during World War II. On Feb. 26 there is an additional 1:00 p.m. presentation.

<u>February 26, 2004, 7:00 p.m.</u> Guest Speakers Series:

Tuskegee Airmen

March 13, 2004 Outta Sight Flight

Girl Scouts, earn your Junior Aerospace Activity badge. Explore early air travel, how things fly, women in aviation and space exploration. Fee and registration required.

March 18, 2004, 7:00 p.m. Guest Speaker Series:

William a. Guenon, Jr. give eyewitness details of a daring P. O. W. rescue attempt during the Vietnam War. Afterwards, he signs copies of his book "Secret and Dangerous: Night of the So'N Tay POW Raid."

March 20, 2004

Ultralight Safety Seminar

Hear the experts discuss safety techniques, maintenance and other factors in flying ultralights. For more information call (804) 236-3637.

March 27-28, 2004

Wings 'n' Rails

Bring the kids and watch model trains of all scales travel through intricate layouts. Let the little ones get their hands dirty while learning to build parts of layouts. Talk with modelers about starting your own railroad.

Aviation Education Corner

Interdisciplinary Learning Activities

Science

- •Compare bats with airplanes
- •Discuss why some birds fly and some do not
- •Predict how aircraft will function in space (see NASA's *Lift-off to Learning: Toys in Space II* video.
- •Discuss why some plants have seeds that "fly."
- •Discuss why wind is important to flying.
- •Compose a list of living things that fly and a list of those that do not fly
- •List safety concerns pilots address when flying in aircraft.
- •Compare and contrast how helicopters and airplanes fly.
- •Compare and contrast some of the different kinds of aircraft.

Mathematics

- •Experiment building kites with different geometric shapes. Determine which kite flies the best.
- •Determine how fast students can flap their arms. Graph and compare.
- •Many birds migrate. Using a map, calculate how far some birds travel when they migrate.
- •Make an aircraft drawing by connecting dots using numbers that require students to count by 2s or 3s.
- •Test fly a paper or Styrofoam glider and determine the glide time. Record and graph results.

Fine Arts

- •Design an airplane stamp.
- •Outline the shape of an airplane using a meter-length piece of string or yarn.
- •Create a song about flying.
- •List popular songs that contain flying as a theme.
- •Build kites shaped like musical instruments.
- •Draw pictures of things flying through the air.

Technology Education

- •Design and construct different types of kites. Experiment with the designs to determine which kites fly the best.
- •Design and build different types of gliders or paper airplanes.
- •Construct models of different aircraft using popsicle sticks.
- •Make an airplane using common household items.
- •Design a unique aircraft using a computer.

Social Studies

- •Create a pictorial history of flying, including kites, balloons, helicopters, and airplanes.
- •Discuss the impact flying machines have had on civilization.
- •List the many jobs and careers that were created by the industry of flight.

Language Arts

- •Create an ABC picture dictionary of flight.
- •Read mythology stories such as Icarus that are related to flight.
- •Locate stories about flying in the school library.
- •Have students write poems about flying.
- •Maintain a "Book Center" with flight-related stories for students to read
- •Write open-ended stories about flying and have the students complete them.
- •Develop flash cards for the parts of an airplane.
- •Have students spell their names using the International Phonetic Code Alphabet.
- •Make a bulletin board using aviation words that begin with the letters of the alphabetic.
- •Have students who have flown write about their experiences.

From Aeronautics: An Educator's Guide with Activities in Science, Mathematics, and Technology Education (NASA).

National Congress on Aviation and Space Education Coming Up in March

The National Congress on Aviation and Space Education (NCASE) will take place at the Atlanta Marriott Marquis in Atlanta, GA, March 24-27, 2004. There is still time to register for this premier annual aerospace education conference.

For 36 years NCASE has provided educators with professional development, personal growth, motivation for teaching, and unlimited networking opportunities.

Among the impressive list of presenters for this year are:

Ken Blackburn, world record holder for paper airplane sustained flight and Boeing engineer;

Joe Edwards, former Navy fighter pilot and astronaut, and current Chairman of the National Science Center;

Anthony Fowler, interagency coordinator for the U.S. Department of Education, who will discuss "the culture of achievement" defined under the *No Child Left Behind Act*;

Gus McLeod, completing the first flight around the world in an open cockpit airplane;

Dr. Betsy Rogers, 2002 National Teacher of the Year; and **Jim Voss**, former International Space Station crew member and currently Associate Dean of Engineering for External Affairs at Auburn University.

For more information about NCASE or to register online visit www.cap.gov.

National Consortium Picks Aviation Technology Test Site

A public-private partnership, working to develop tools for a better Small Aircraft Transportation System (SATS), has chosen Danville Regional Airport, Danville, Va. as the location to test technologies that could improve general aviation and make air travel more accessible to more people.

NASA and the National Consortium for Aviation Mobility are planning an operational demonstration at the airport in mid-2005 with aircraft equipped with new technologies developed by NASA's SATS project. The goal of the demonstration is to show emerging aviation technologies can be integrated into operations in an airport environment. This new capability may some day allow more small aircraft and airports to be used safely and reliably by more passengers. It is the culmination of the five-year SATS research project.

Researchers at NASA's Langley Research Center in Hampton, Va., and at SATS laboratories across the country, are developing integrated airborne systems, cockpit displays and operating procedures for advanced four to 10 passenger aircraft. These technologies could help planes safely fly into under-used rural and suburban airports, including many airfields that don't have radar or air traffic control towers. About 93 percent of people in the U.S. live within 30 minutes of one of these airports.

SATS research is focusing on four operating capabilities that may help permit people and goods to travel faster and farther, anywhere and any time. These technologies would allow:

- •higher volume operations at airports that don't have control towers or terminal radar,
- •pilots to land safely in low visibility conditions at minimally equipped airports,
- •increased single-pilot performance, and
- •SATS aircraft to integrate seamlessly into the complex national airspace.

Many of the cockpit systems to enable the SATS operating capabilities are already being developed by NASA, its industry partners and other companies. SATS researchers are working to demonstrate complex, sophisticated technology can be brought together as an effective, affordable system for smaller airplanes.

For information about NASA on the Internet, visit: http://www.nasa.gov

For more information about SATS on the Internet, visit: http://sats.nasa.gov

For information about the National Consortium for Aviation Mobility on the Internet, visit: http://www.ncam-sats.org

Louisa Airport Campaign Collects Over 500 Toys!

The Louisa County Industrial Development Authority (located in the Industrial Air Park) was selected as a drop off location for the nationwide Marine sponsored Toys for Tots Program this past November.

Dawn Pickhardt, co-chairman of the project, reports that over 500 toys were collected as a result of this very successful community program. Congratulations to everyone involved!



SCIENCE MUSEUM OF VIRGINIA CALENDAR

EXHIBITIONS

Mary Morton Parsons Earth-Moon Sculpture (kugel) - Permanent

IMAX FILMS

Pulse: A Stomp Odyssey - January 10 - July 16, 2004 Walt Disney's The Young Black Stallion thru March 13

MULTIMEDIA SHOWS

Hubble/Night Sky. Catch the latest images from the Hubble Space Telescope, followed by a look at the stars and planets in the current night sky.

LIVESKY: Informal "live" planetarium presentation of the month's celestial events. Third Friday of every month (except Oct.)

SKYWATCH: Third Friday of every month (weather permitting) on the front lawn.

24-Hour Information: (804) 367-0000
Box Office: (804) 367-1080
24-Hour Skywatch Information: (804) 367-8277
24-Hour TDD Information: (804) 367-9760
General Information - TDD: (804) 367-6552
Group Scheduling: (804) 367-6552
Home Page: http://www.smv.org

VIRGINIA AIR AND SPACE CENTER CALENDAR

EXHIBITS:

Adventures in Flight Gallery

TRAVELLING EXHIBITS:

Circus! Science Under the Big Top thru May 2 Strange Matter - May 28-September 5, 2004

IMAX FILMS:

Walt Disney's The Young Black Stallion Space Station in 3D Nascar 3D - beginning March 12

LIVE SCIENCE DEMONSTRATIONS

Star Station One: International Space Station Learn about the International Space Station, the international community that's getting it together, and the many steps involved in the process.

Science of Circus

How do they do that? Join museum educators for a behind-the-scenes look at the science of the circus, from the physics of acrobatics to the impossible feats of sideshow performers.

Call (804) 727-0900 for showtimes

Visit the Center's Home Page: http://www.vasc.org

Calendar of Events

February 19, 2004

FAA Safety Seminar at New River Valley Airport will include Pilot Safety Seminar and Wings Program. For more information contact Bob Atkins at (540) 674-4141.

March 20, 2004

Virginia Ultralight Safety Seminar will be held from 8:30 a.m. until 3:30 p.m. at the Virginia Aviation Museum on Richmond International Airport. For more information contact Carolyn Toth at (804) 236-3637.

April 5-8, 2004

Virginia Aviation Safety Week - Keynote speaker, Greg Feith - Former NTSB investigator. For more details, contact Jeanie Carter, Safety Program Administrator, Virginia Department of Aviation at (804) 236-3639.

June 6, 2004

Open House and Fly-In at New London Airport from 8:00 a.m. - 5:00 p.m. All day family event. Children's "bomb" drop contest, air rides, breakfast and lunch, antique cars. For more information contact David Miller at (540) 586-5155.

June 12-13, 2004

Southside Skyfest will be held at Danville Regional Airport. Skyfest includes an air show and car show. For more information contact Marc Adelman at (434) 799-5110 or visit www.ci.danville.va.us/trans/airport/index.htm.

For more events visit: http://www.doav.state.va.us/calendar.htm.

Aviation Education Supporters:

Richmond, Virginia 23250-2422

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.
Regular Membership \$25.00 annually (July - Dec. \$12.50)
Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)
Corporate Membership \$100.00 annually (July - Dec. \$50.00)
New Member Renewal
Date:
Name:
Name of Organization:
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